

25. The polynucleotide of claim 24, comprising 150 contiguous nucleotides of SEQ  
ID NO:1.

26. The polynucleotide of claim 23, further comprising a heterologous polynucleotide.

27. A vector comprising the polynucleotide of claim 23.

28. A host cell comprising the polynucleotide of claim 23.

29. The host cell of claim 28, wherein said polynucleotide is operably associated with  
a heterologous regulatory sequence.

~~30.~~ A method of using the host cell of claim 29 to screen for ligand binding,  
comprising culturing said host cell under conditions such that a polypeptide encoded by said  
polynucleotide is expressed, contacting said polypeptide with said ligand, and detecting binding  
of said ligand to said polypeptide.

31. A method of producing a polypeptide comprising culturing the host cell of claim  
29 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

~~32.~~ A polypeptide produced by the method of claim 31.

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33. An isolated polynucleotide comprising a nucleic acid encoding 30 contiguous amino acids of SEQ ID NO:2.

34. The polynucleotide of claim 33, wherein said nucleic acid encodes a polypeptide which binds an antibody having specificity for the polypeptide of SEQ ID NO:2.

ent B4 35. The polynucleotide of claim 33, wherein said nucleic acid encodes a polypeptide which has G protein-coupled receptor activity.

36. The polynucleotide of claim 33, further comprising a heterologous polynucleotide.

37. A vector comprising the polynucleotide of claim 33.

38. A host cell comprising the polynucleotide of claim 33.

39. The host cell of claim 38, wherein said polynucleotide is operably associated with a heterologous regulatory sequence.

40. A method of using the host cell of claim 39 to screen for ligand binding, comprising culturing said host cell under conditions such that a polypeptide encoded by said polynucleotide is expressed, contacting said polypeptide with said ligand, and detecting binding of said ligand to said polypeptide.

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41. A method of producing a polypeptide comprising culturing the host cell of claim 39 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

~~42.~~ A polypeptide produced by the method of claim 41.

43. An isolated polynucleotide comprising a nucleic acid at least 90% identical to a reference nucleic acid encoding 50 contiguous amino acids of SEQ ID NO:2.

44. The polynucleotide of claim 43, wherein said nucleic acid is at least 95% identical to said reference nucleic acid.

45. The polynucleotide of claim 44, wherein said nucleic acid encodes 50 contiguous amino acids of SEQ ID NO:2.

46. The polynucleotide of claim 43, wherein said nucleic acid encodes a polypeptide which binds an antibody having specificity for the polypeptide of SEQ ID NO:2.

47. The polynucleotide of claim 43, wherein said nucleic acid encodes a polypeptide which has G protein-coupled receptor activity.

48. The polynucleotide of claim 43, further comprising a heterologous polynucleotide.

49. A vector comprising the polynucleotide of claim 43.

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51. The host cell of claim 50, wherein said polynucleotide is operably associated with a heterologous regulatory sequence.

52. A method of using the host cell of claim 51 to screen for ligand binding, comprising culturing said host cell under conditions such that a polypeptide encoded by said polynucleotide is expressed, contacting said polypeptide with said ligand, and detecting binding of said ligand to said polypeptide.

53. A method of producing a polypeptide comprising culturing the host cell of claim 51 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

54. A polypeptide produced by the method of claim 53.

55. An isolated polynucleotide comprising a nucleic acid at least 90% identical to a reference nucleic acid encoding amino acids 2 to 342 of SEQ ID NO:2.

56. The polynucleotide of claim 55, wherein said nucleic acid is at least 95% identical to said reference nucleic acid.

57. The polynucleotide of claim 56, wherein said nucleic acid encodes amino acids 2 to 342 of SEQ ID NO:2.

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58. The polynucleotide of claim 57, wherein said nucleic acid comprises nucleotides 229-1251 of SEQ ID NO:1.

59. The polynucleotide of claim 55, wherein said nucleic acid encodes a polypeptide which binds an antibody having specificity for the polypeptide of SEQ ID NO:2.

60. The polynucleotide of claim 55, wherein said nucleic acid encodes a polypeptide which has G protein-coupled receptor activity.

61. The polynucleotide of claim 55, further comprising a heterologous polynucleotide.

62. A vector comprising the polynucleotide of claim 55.

63. A host cell comprising the polynucleotide of claim 55.

64. The host cell of claim 63, wherein said polynucleotide is operably associated with a heterologous regulatory sequence.

65. A method of using the host cell of claim 64 to screen for ligand binding, comprising culturing said host cell under conditions such that a polypeptide encoded by said polynucleotide is expressed, contacting said polypeptide with said ligand, and detecting binding of said ligand to said polypeptide.

229-1251 of SEQ ID NO:1

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66. A method of producing a polypeptide comprising culturing the host cell of claim 64 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

~~67.~~ A polypeptide produced by the method of claim 66.

~~68.~~ An isolated polynucleotide comprising a nucleic acid at least 90% identical to a reference nucleic acid encoding amino acids 1 to 342 of SEQ ID NO:2.

69. The polynucleotide of claim 68, wherein said nucleic acid is at least 95% identical to said reference nucleic acid.

70. The polynucleotide of claim 69, wherein said nucleic acid encodes amino acids 1 to 342 of SEQ ID NO:2.

71. The polynucleotide of claim 70, wherein said nucleic acid comprises nucleotides 226-1251 of SEQ ID NO:1.

72. The polynucleotide of claim 68, wherein said nucleic acid encodes a polypeptide which binds an antibody having specificity for the polypeptide of SEQ ID NO:2.

73. The polynucleotide of claim 68, wherein said nucleic acid encodes a polypeptide which has G protein-coupled receptor activity.

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82. The polynucleotide of claim 81, wherein said nucleic acid encodes the mature polypeptide encoded by the human cDNA of ATCC Deposit No. 209003.

83. The polynucleotide of claim 82, wherein said nucleic acid encodes the complete polypeptide encoded by the human cDNA of ATCC Deposit No. 209003.

84. The polynucleotide of claim 81, wherein said nucleic acid encodes a polypeptide which binds an antibody having specificity for the polypeptide of SEQ ID NO:2.

85. The polynucleotide of claim 81, wherein said nucleic acid encodes a polypeptide which has G protein-coupled receptor activity.

86. The polynucleotide of claim 81, further comprising a heterologous polynucleotide.

87. A vector comprising the polynucleotide of claim 81.

88. A host cell comprising the polynucleotide of claim 81.

89. The host cell of claim 88, wherein said polynucleotide is operably associated with a heterologous regulatory sequence.

ATCC 209003



90. A method of using the host cell of claim 89 to screen for ligand binding, comprising culturing said host cell under conditions such that a polypeptide encoded by said polynucleotide is expressed, contacting said polypeptide with said ligand, and detecting binding of said ligand to said polypeptide.

91. A method of producing a polypeptide comprising culturing the host cell of claim 89 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

92. A polypeptide produced by the method of claim 91.

93. An isolated polynucleotide comprising a nucleic acid encoding at least one transmembrane domain of SEQ ID NO:2.

94. The polynucleotide of claim 93, further comprising a heterologous polynucleotide.

95. A vector comprising the polynucleotide of claim 93.

96. /A host cell comprising the polynucleotide of claim 93.

97. The host cell of claim 96, wherein said polynucleotide is operably associated with a heterologous regulatory sequence.

~~98.~~ A method of using the host cell of claim 97 to screen for ligand binding, comprising culturing said host cell under conditions such that a polypeptide encoded by said polynucleotide is expressed, contacting said polypeptide with said ligand, and detecting binding of said ligand to said polypeptide.

99. A method of producing a polypeptide comprising culturing the host cell of claim 97 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

100. A polypeptide produced by the method of claim 99.

~~101.~~ An isolated polypeptide comprising amino acids, wherein the sequence of said amino acids is at least 90% identical to 30 contiguous amino acids of SEQ ID NO:2.

~~102.~~ The polypeptide of claim 101, wherein the sequence of said amino acids is at least 95% identical to 30 contiguous amino acids of SEQ ID NO:2.

~~103.~~ The polypeptide of claim 102, comprising 30 contiguous amino acids of SEQ ID NO:2.

~~104.~~ The polypeptide of claim 101, wherein the sequence of said amino acids is at least 90% identical to 50 contiguous amino acids of SEQ ID NO:2.

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105. The polypeptide of claim 104, wherein the sequence of said amino acids is at least 95% identical to 50 contiguous amino acids of SEQ ID NO:2.

106. The polypeptide of claim 105, comprising 50 contiguous amino acids of SEQ ID NO:2.

107. An isolated polypeptide comprising amino acids, wherein the sequence of said amino acids is at least 90% identical to amino acids 2 to 342 of SEQ ID NO:2.

108. The polypeptide of claim 107, wherein the sequence of said amino acids is at least 95% identical to amino acids 2 to 342 of SEQ ID NO:2.

109. The polypeptide of claim 108, comprising amino acids 2 to 342 of SEQ ID NO:2.

110. The polypeptide of claim 109, comprising amino acids 1 to 342 of SEQ ID NO:2.

111. The polypeptide of claim 101, wherein said polypeptide has G-protein coupled receptor activity.

112. The polypeptide of claim 101, wherein said polypeptide binds an antibody having specificity for the polypeptide of SEQ ID NO:2.

113. The polypeptide of claim 101, further comprising a heterologous polypeptide.

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